CLAIMS

1. A system for automatic generation of card-based presentation documents from multimedia data comprising:

a presentation style transformer; and

a card-based presentation generator connected to said presentation style transformer.

2. A system for automatic generation of card-based presentation documents from multimedia data as claimed in claim 1 wherein said presentation style transformer comprises:

a processor for receiving a card display schema and for processing said card display schema to describe meta rules about presentation resources and content variable definitions for a card-based presentation specification.

3. A system for automatic generation of card-based presentation documents from multimedia data as claimed in claim 1 wherein said presentation style transformer comprises:

a resource generator; and

a style proceduralizer.

4. A system for automatic generation of card-based presentation documents from multimedia data as claimed in claim 3 wherein said style proceduralizer comprises:

a card-based context tree builder;

a content node path walker connected to said card-based context tree builder; and

a content mapping rule generator connected to said content node path walker.

5. A system for automatic generation of card-based presentation documents from multimedia data as claimed in

claim 1 wherein said card based presentation generator comprises:

a presentation construct mapper;

a card-based DSSSL processor connected to said presentation construct mapper; and

an FOD converter connected to said card-based DSSSL processor.

6. A system for automatic generation of card-based presentation documents from multimedia data comprising:

presentation style transformer means for receiving a card layout style specification and a card display schema and for providing a card-based presentation specification; and

card-based presentation generator means connected to said presentation style transformer means for receiving said card-based presentation specification and a card-based document content and for providing formatting object descriptions.

7. A system for automatic generation of card-based presentation documents from multimedia data as claimed in claim 6 wherein said presentation style transformer means comprises:

resource generator means for receiving said card layout style specification and said card display schema and for providing said card-based presentation specification; and

style proceduralizer means for receiving said card layout style specification and said card display schema and for providing said card-based presentation specification.

8. A system for automatic generation of card-based presentation documents from multimedia data as claimed in

claim 7 wherein said style proceduralizer means comprises:

card-based context tree builder means for receiving said card layout style specification and for providing a context tree;

content node path walker means connected to said card-based context tree builder means for receiving said context tree and for providing context paths; and

content mapping rule generator means connected to said content node path walker means for receiving said context paths and said card display schema and for providing said card-based presentation specification.

9. A system for automatic generation of card-based presentation documents from multimedia data as claimed in claim 8 wherein said context tree captures content mapping rule context for making an efficient generation process of procedural rule mappings in CPS.

10. A system for automatic generation of card-based presentation documents from multimedia data as claimed in claim 6 wherein said card based presentation generator means comprises:

presentation construct mapper means for receiving said card-based presentation specification and for providing card-based DSSSL style specifications;

card-based DSSSL processor means connected to said presentation construct mapper means for receiving said card-based DSSSL style specifications and said card-based document content and for providing a card-based document flow object tree; and

FOD converter means connected to said card-based DSSSL processor means for receiving said card-based document flow object tree and for providing said formatting object descriptions.

11. A system for automatic generation of card-based presentation documents from multimedia data as claimed in claim 10 wherein said card-based document flow object tree comprises:

a specification of a sequence of FODfo flow objects.

12. A method for automatic generation of card-based presentation documents from multimedia data comprising the steps of

transforming a presentation style; and

generating a card based presentation.

13. A method for automatic generation of card-based presentation documents from multimedia data as claimed in claim 12 wherein transforming a presentation style comprises the steps of:

resource generating presentation resource descriptions; and

translating declarative card layout style specifications into procedural card-based presentation specifications.

14. A method for automatic generation of card-based presentation documents from multimedia data as claimed in claim 13 wherein translating declarative card layout style specifications comprises the steps of:

building a card-based context tree;

building context paths; and

generating a content mapping rule.

15. A method for automatic generation of card-based presentation documents from multimedia data as claimed in claim 14 wherein generating a content mapping rule comprises the steps of:

getting a next context path;

deciding whether last path;

visiting a next node;

deciding whether end of path;

deciding whether node is visited before;

creating a context attribute value;

creating <DefineVAr>s for rule mapping;

creating <CaseExpr> or <IfExpr> if multiple node types exist; and

deciding a node category.

16. A method for automatic generation of card-based presentation documents from multimedia data as claimed in claim 12 wherein generating a card based presentation comprises the steps of:

mapping CPS constructs into card-based DSSSL style constructs;

creating card-based document flow object tree; and

converting card-based document flow object tree into formatting object descriptions.